STATUS OF THE CLAIMS

1. (Previously Presented) A device comprising first and second side channels attached to a microdroplet transport channel etched in substrate so as to create first and second intersections, said first and second side channels having hydrophobic surfaces said microdroplet transport channel comprising a hydrophobic region and liquid abutting said hydrophobic region, said liquid extending through said first intersection without entering said first side channel wherein said hydrophobic region is positioned in said microdroplet transport channel between said first and second side channels.

2-5. (Canceled)

6. (Previously Presented) A device comprising first and second side channels attached to a microdroplet transport channel so as to create first and second intersections, said first and second side channels having hydrophobic surfaces, said microdroplet transport channel comprising i) first and second ends, said first end comprising a liquid inlet port ii) a hydrophobic region disposed within said microdroplet transport channel between said first and second ends, and iii) liquid extending from said inlet port through said first intersection, without entering said first side channel, and abutting said hydrophobic region.

7-11. (Canceled)

12. (Original) The device of Claim 6, wherein said device is fabricated from a glass, quartz or silicon substrate.

13. (Previously Presented) The device of Claim 6, wherein said microdroplet transport channel is between 5 and 20 μm in depth and between 20 and 1000 μm in width.

14. (Previously Presented) The device of Claim 1, wherein said microdroplet transport channel is between 5 and 20 μm in depth and between 20 and 1000 μm in width.